

Datasheet for 200-1353-0100

Glucose-6-Phosphate Dehydrogenase Antibody Peroxidase Conjugated

Overview

Description:	Anti-Glucose-6-Phosphate Dehydrogenase (GOAT) Antibody Peroxidase Conjugated - 200-1353-0100
Item No.:	200-1353-0100
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Leuconostoc mesenteroides
Host Species:	Goat

Product Details

Background:	Glucose-6-Phosphate Dehydrogenase is in the pentose phosphate pathway, a metabolic pathway that supplies reducing energy to cells (such as erythrocytes) by maintaining the level of the co-enzyme nicotinamide adenine dinucleotide phosphate (NADPH), which maintains the level of glutathione in these cells that helps protect the red blood cells against oxidative damage. Cell growth and proliferation are affected by Glucose-6-Phosphate Dehydrogenase. Glucose-6-Phosphate Dehydrogenase inhibitors are under investigation to treat cancers and other conditions. DHEA is a Glucose-6-Phosphate Dehydrogenase inhibitor.
Synonyms:	goat anti-Glucose-6-Phosphate Dehydrogenase Antibody HRP Conjugation, Peroxidase Conjugated goat anti-Glucose-6-Phosphate Dehydrogenase Antibody, G6PD antibody, G6PD1 antibody, G6pdx antibody, Glucose 6 phosphate 1 dehydrogenase antibody, MET19 antibody, POS10 antibody, Zwf1p antibody
Host Species:	Goat
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	zwf
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Reactivity:	Leuconostoc mesenteroides
Immunogen Type:	Native Protein
Immunogen:	Glucose-6-Phosphate-Dehydrogenase [Yeast]
Purity/Specificity:	Glucose-6-Phosphate Dehydrogenase is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Goat Serum as well as purified and partially purified Glucose-6-Phosphate-Dehydrogenase [Yeast]. Cross reactivity against Glucose-6-Phosphate-Dehydrogenase from other tissues and species may occur but have not been specifically determined.
Relevant Links:	• UniProtKB - P11411 • NCBI - P11411.4 • GeneID - 6063509

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-Glucose-6-Phosphate Dehydrogenase has been tested in ELISA and western blot. This product is assayed against 1.0 ug of Glucose-6-Phosphate-Dehydrogenase [Yeast] in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:20,000 to 1:100,000 of the reconstitution concentration is suggested for this product.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:20,000
WB:	1:500 - 1:2,000

Formulation

Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	100 µL

Reconstitution Buffer:	Restore with deionized water (or equivalent)
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Shipping & Handling

Shipping Condition:	Ambient
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Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
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Expiration:	Expiration date is one (1) year from date of receipt.
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Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.